FileSyncer meets EOSC
new opportunities for self-financed services

17 November 2022
EOSC-Symposium, Prague

Jan Meijer <jan.meijer@sikt.no>
Sikt – Norwegian Agency for Shared Services in Education and Research
What is FileSender?

• Value proposition: simple and secure transfer of files of any size using a trusted intermediary

• Open source webapplication: native browser, encryption, AAI integrated, API, proven to work for 1TB transfers, designed for large scale use, regularly security audited

• Typically national deployment; channel to end user: NREN offers service to institutions offers service to end users.

• Joint development project of software,
  • Started 2009, sustained by regular financial support from over 10 NRENs
    • No EC funding
  • Since Dec 2016 long term legal/administrative home at The Commons Conservancy foundation in NL
  • FileSender board – Jan Meijer, Guido Aben, Rogier Spoor

www.filesender.org
National instances in most of Europe

<table>
<thead>
<tr>
<th>Country</th>
<th>#transfers</th>
<th>#users/mo</th>
</tr>
</thead>
<tbody>
<tr>
<td>France (RENATER)</td>
<td>6.800.000</td>
<td>46K</td>
</tr>
<tr>
<td>Netherlands (SURF)</td>
<td>1.500.000</td>
<td>10K</td>
</tr>
<tr>
<td>Ireland (HEAnet)</td>
<td>137.000</td>
<td>1.5K</td>
</tr>
<tr>
<td>Finland (CSC)</td>
<td>170.000</td>
<td>2K</td>
</tr>
</tbody>
</table>

De-facto European infrastructure for (sensitive) data transfers up to 1TB
changed landscape:

1 infrastructure
1,000,000 researchers,
100s aggregators
1000s organisations
40 countries

all research data findable, accessible, interoperable and reusable

via

one coherent data brokering platform

under one coherent policy and governance

+ 

european single (public sector) marketplace for services
Changing environment, new opportunities

• Self-financed services = continuous business modelling
• Increase value, new channel to user, new user groups, new functionality, increased use
• Increased value = increased tax base = lower cost / contributing organisation
Example 1: From national nodes into coherent European infrastructure

• One coherent UI reaching 100,000+ users, using national sovereign back-ends
  • Retains key value add: simple and secure transfer within YOUR jurisdiction

• Enables easy deployment of new functionality:
  • Send data directly to/from data repositories and data processing
  • Seal, timestamp and sign data as part of transfer
    • eIDAS compliant
    • Encourage improved digital hygiene for data and documents, at scale
    • Secure research data at rest
Example 2: receptive user base for scalable encryption key management

- FileSender already supports native browser encryption
  - Everyone with a browser already has basic capability to transfer sensitive data securely
- Technology pilot to integrate passports & driver licenses as key management tokens
  - Passports deployed & managed by 3rd party
  - Accessed through tapping your mobile phone
  - Really scalable!
- New value proposition: EOSC-context scalable transfer service for (ad-hoc) sensitive personal data?
  - That can integrate with sensitive data services?
Thank you

jan.meijer@sikt.no
www.filesender.org
filesender-dev@filesender.org
filesender.board@commonsconservancy.org